

# Implant Impressions

## IMPORTANT NOTES:

1. It is important to use the appropriate impression coping for the transfer technique employed (open- or closed-tray).
2. The open-tray impression technique is required when implants are not parallel or the path of insertion is divergent.
3. If multiple implants are involved, start with the most posterior site and work forward. Place the impression coping immediately after removing each healing abutment, so that the tissue does not collapse around the implant.

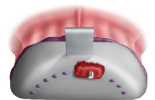
## Open-Tray Technique



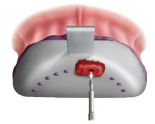
**STEP 1:** Remove the healing abutment from the implant.



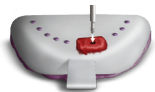
**STEP 2:** Seat an open-tray impression coping on the implant. Take a radiograph to verify complete seating.



**STEP 3:** Prepare a hole in a tray that aligns with each coping. Inject light-body syringe material around each coping. Fill the tray with medium- or heavy-body material and seat the impression tray. Allow the material to set.



**STEP 4:** Unscrew each guide pin before removing the tray. Impression copings should remain embedded in the impression.



**STEP 5:** Seat a healing abutment on each implant. Place each guide pin into its corresponding location in the impression.

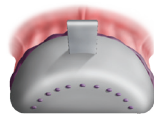
## Closed-Tray Technique



**STEP 1:** Remove the healing abutment from the implant.



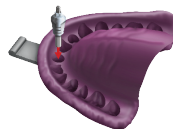
**STEP 2:** Seat a closed-tray impression coping on the implant. Take a radiograph to verify complete seating.



**STEP 3:** Inject light-body syringe material around each coping. Fill the tray with medium- or heavy-body material and seat the impression tray. Allow the material to set.



**STEP 4:** Remove the tray. Impression copings should remain attached to the implants. Unscrew each coping and remove from the mouth.



**STEP 5:** Seat a healing abutment on each implant. Place each coping into its corresponding location in the impression.

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## Abutment-Level Technique



**STEP 1:** If needed, prepare the abutment to allow enough occlusal space for the final crown. Due to high thermal conductivity, titanium abutments should not be modified in the oral cavity. Seat the abutment on the implant and torque into place.



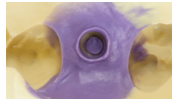
**STEP 2:** Pack a retraction cord. Start and finish in the same area. Leave the cord in place to expose the margin.



**STEP 3:** Inject light-body vinyl polysiloxane impression material, starting at the margin.



**STEP 4:** Keep the tip of the syringe in the impression material as you continue around the margin and abutment until completely covered.



**STEP 5:** Fill a full-arch, rigid tray with heavy-body material, and take the impression.



**STEP 6:** Send the impression, an opposing impression and a bite registration to Glidewell Laboratories.

## Helpful Tips for Better Results

- Take a radiograph to confirm complete seating of impression copings.
- Use a full-arch impression tray (custom or stock).
- Provide a bite registration, regardless of impression technique.
- To eliminate voids, use light-body syringe material around the impression coping and medium- or heavy-body material in the tray.
- Be sure that the impression material has fully set before removing the tray. Wait 2 minutes longer than the manufacturer's setting time.